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## **CLAIMS**

## What is claimed is:

- 1. A method for inducing T cell tolerance in a sample of *ex vivo* peripheral blood mononuclear cells (PBMCs) comprising adding a suppressive-inducing composition to said cells.
- 5 2. A method for treating donor cells to ameliorate graft versus host disease in a recipient patient comprising:
  - a) removing peripheral blood mononuclear cells (PBMC) from a donor;
  - b) treating said cells with a suppressive-inducing composition for a time sufficient to induce T cell tolerance; and
  - c) introducing said cells to said patient.
  - 3. A method according to claim 1 or 2 wherein said suppressive-inducing composition comprises TGF-β and IL-2.
  - 4. A method according to claim 1 or 2 further comprising treating said donor cells with a T cell activator.
  - 5. A method according to claim 4 wherein said T cell activator is a recipient cell.
  - 6. A method according to claim 2 wherein said method further comprises adding said cells to donor stem cells prior to introduction into said patient.
  - 7. A method according to claim 1 or 2 wherein said PBMCs are enriched for CD8+ cells.
  - 8. A method according to claim 1 or 2 wherein said PBMCs are enriched for CD4+ cells.
- 9. A method for generating suppressor cells in a sample of ex vivo peripheral blood mononuclear cells (PBMCs) comprising adding a suppressive-inducing composition to said cells.
  - 10. A method for treating donor cells to ameliorate graft versus host disease in a recipient patient comprising:
    - a) removing peripheral blood mononuclear cells (PBMC) from a donor;
    - b) treating said cells with a suppressive-inducing composition for a time sufficient to generate suppressor cells; and
    - c) introducing said cells to said patient.

- 11. A method according to claim 9 or 10 wherein said suppressive-inducing composition comprises TGF-β.
- 12. A method according to claim 9 or 20 wherein said suppressive-inducing composition comprises a mixture of IL-2 and TGF-β.
- 13. A method according to claim 9 or 10 further comprising treating said donor cells with a T cell activator.
  - 14. A method according to claim13 wherein said T cell activator is a recipient cell.
  - 15. A method according to claim 10 wherein said method further comprises adding said cells to donor stem cells prior to introduction into said patient.
  - 16. A method according to claim 9 or 10 wherein said PBMCs are enriched for CD8+ cells.
  - 17. A method according to claim 9 or 10 wherein said PBMCs are enriched for CD4+ cells.
  - 18. A kit for the treatment of donor cells comprising:
    - a) a cell treatment container adapted to receive cells from a donor; and
    - b) at least one dose of a suppressive-inducing composition.
  - 19. A kit for the treatment of donor cells according to claim 18 further comprising at least one dose of a T cell activator.
  - 20. A kit according to claim 18 or 19 further comprising written instructions for the method of treating.
  - 21. A kit according to claim 18 or 19 wherein said dose is contained within said cell treatment container.
- 20 22. A kit according to claim 18 or 19 wherein said dose is in a lyophilized form.
  - 23. A kit according to claim 18 or 19 wherein said cell treatment container further comprises at least one reagent.
  - 24. A kit according to claim 18 or 19 wherein said cell treatment container further comprises a sampling port to enable the removal of a fraction of said cells for analysis.

- 25. A kit according to claim 18 or 19 further comprising an exit port adapted to enable transport at least a portion of said cells to a recipient patient.
- 26. A kit according to claim 18 wherein said suppressive-inducing composition is a mixture of IL-2 and TGF-β.
- 5 27. A kit according to claim 19 wherein said T cell activator is a mitogen.
  - 28. A kit according to claim 27 wherein said mitogen is staphylococcal enterotoxin B.

